

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P956176

Luminaire Tested: **GALN-SB8D-930-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8D-930-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56895 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

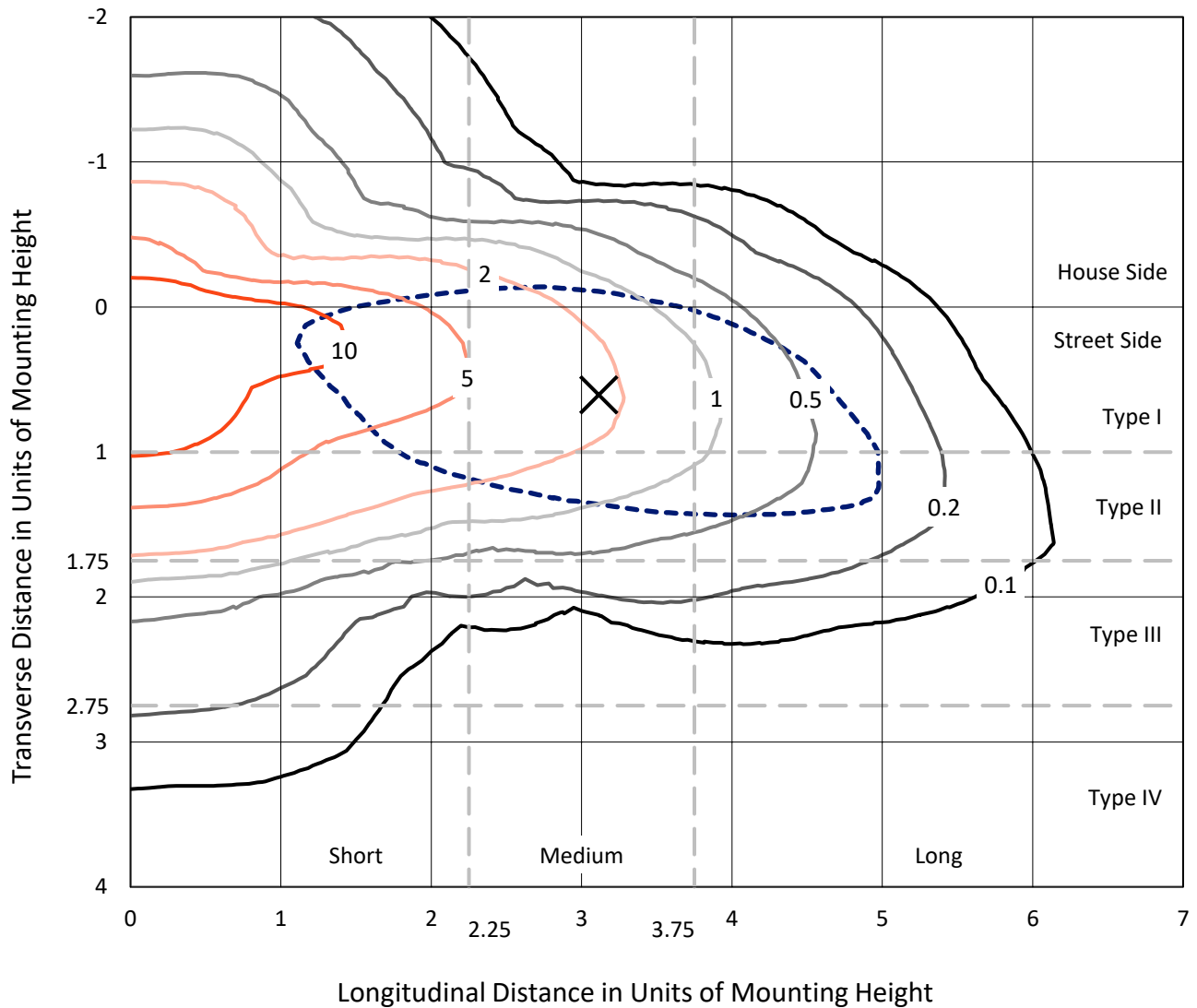
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

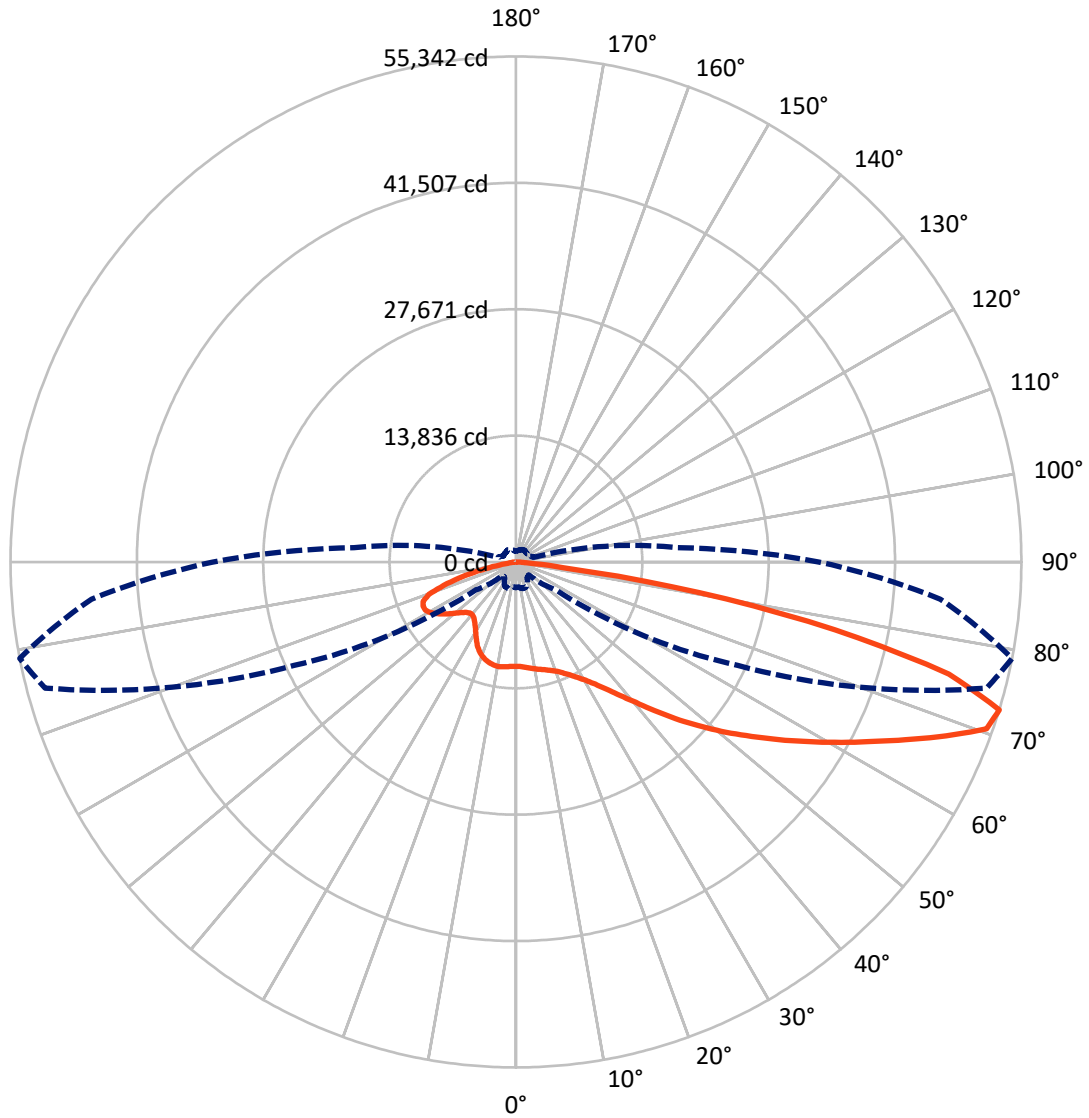
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12520.0 | 0.0 | 12520.0 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 44375.0 | 0.0 | 44375.0 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 56895.0 | 0.0 | 56895.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1036.7 | 1.8 |
| 10°-20° | 2710.5 | 4.8 |
| 20°-30° | 4373.6 | 7.7 |
| 30°-40° | 6564.2 | 11.5 |
| 40°-50° | 9311.6 | 16.4 |
| 50°-60° | 11759.3 | 20.7 |
| 60°-70° | 11943.2 | 21.0 |
| 70°-80° | 8139.8 | 14.3 |
| 80°-90° | 1056.1 | 1.9 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 56895.0 | 100.0 |
| 0°-180° | 56895.0 | 100.0 |



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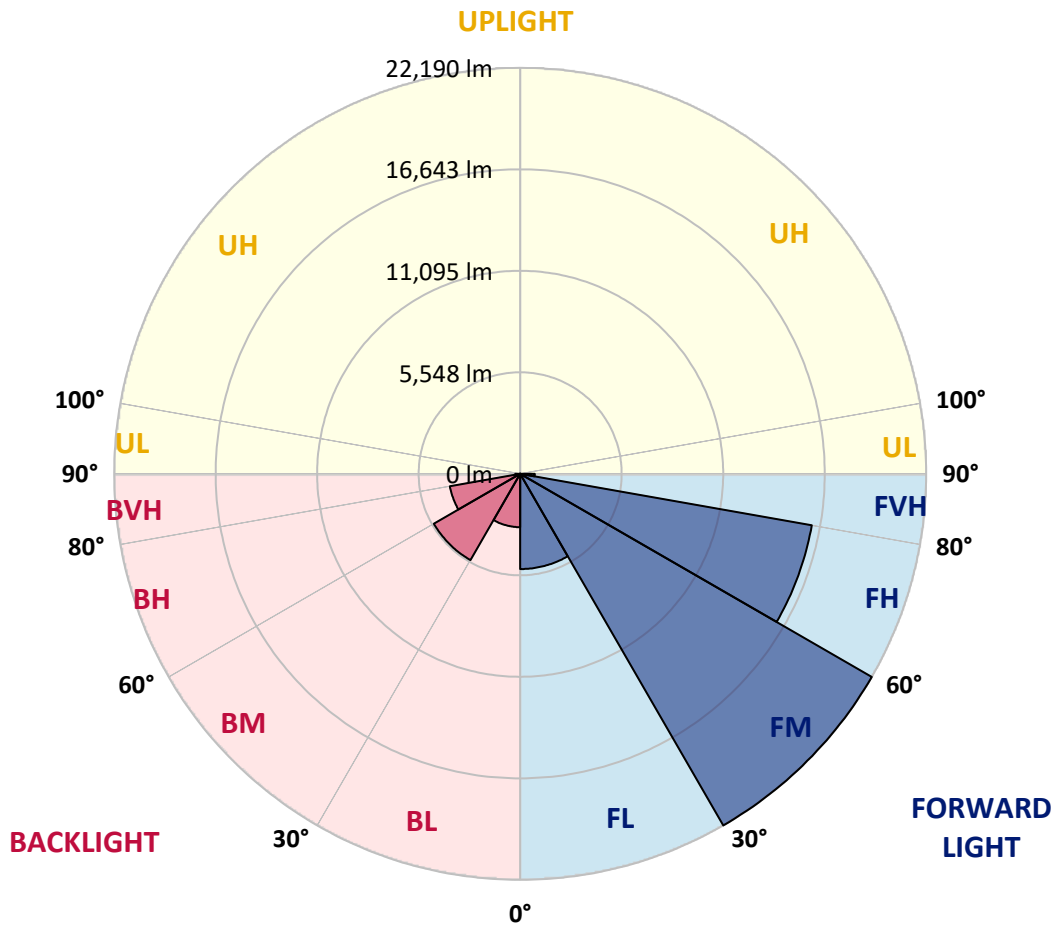
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5204.5 | 9.1 | | | |
| FM (30°-60°) | 22190.2 | 39.0 | | | |
| FH (60°-80°) | 16184.7 | 28.4 | | | G5 |
| FVH (80°-90°) | 795.5 | 1.4 | | | G5 |
| BL (0°-30°) | 2916.3 | 5.1 | B4/5000 | | |
| BM (30°-60°) | 5444.9 | 9.6 | B4/8500 | | |
| BH (60°-80°) | 3898.3 | 6.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 260.5 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11421.1 | 11421.1 | 11421.1 | 11421.1 | 11421.1 | 11421.1 | 11421.1 | 11421.1 | 11421.1 | 11421.1 |
| 2.5° | 11427.1 | 11373.0 | 11406.1 | 11394.0 | 11409.1 | 11427.1 | 11433.2 | 11442.2 | 11472.3 | 11469.3 |
| 5° | 11403.1 | 11348.9 | 11394.0 | 11379.0 | 11418.1 | 11460.3 | 11496.4 | 11529.5 | 11577.6 | 11598.7 |
| 7.5° | 11351.9 | 11315.8 | 11360.9 | 11406.1 | 11478.3 | 11541.5 | 11592.7 | 11667.9 | 11737.1 | 11749.2 |
| 10° | 11054.0 | 11026.9 | 11132.2 | 11249.6 | 11448.2 | 11619.8 | 11731.1 | 11818.4 | 11893.6 | 11905.7 |
| 12.5° | 10744.0 | 10710.9 | 10828.3 | 10987.8 | 11309.8 | 11619.8 | 11854.5 | 11968.9 | 12035.1 | 12074.2 |
| 15° | 10692.8 | 10665.7 | 10732.0 | 10870.4 | 11138.2 | 11538.5 | 11938.8 | 12149.4 | 12206.6 | 12251.8 |
| 17.5° | 10939.6 | 10888.4 | 10915.5 | 10963.7 | 11120.2 | 11463.3 | 12005.0 | 12354.1 | 12441.4 | 12489.5 |
| 20° | 11511.4 | 11439.2 | 11397.1 | 11300.7 | 11273.7 | 11475.3 | 11999.0 | 12600.9 | 12715.2 | 12775.4 |
| 22.5° | 12272.8 | 12224.7 | 12134.4 | 11890.6 | 11625.8 | 11622.8 | 12113.3 | 12916.9 | 13130.5 | 13187.7 |
| 25° | 13193.7 | 13121.5 | 13007.1 | 12676.1 | 12167.5 | 11914.7 | 12305.9 | 13320.1 | 13678.3 | 13693.3 |
| 27.5° | 14253.1 | 14144.7 | 13988.3 | 13551.9 | 12865.7 | 12372.1 | 12600.9 | 13783.6 | 14307.3 | 14301.2 |
| 30° | 15369.6 | 15261.3 | 15095.8 | 14566.1 | 13702.3 | 12989.1 | 13010.2 | 14283.2 | 15053.6 | 15020.5 |
| 32.5° | 16185.2 | 16103.9 | 16070.8 | 15661.5 | 14665.4 | 13717.4 | 13479.6 | 14836.9 | 15974.5 | 15944.4 |
| 35° | 16811.2 | 16705.8 | 16745.0 | 16537.3 | 15715.7 | 14533.0 | 14054.5 | 15496.0 | 17094.1 | 17091.1 |
| 37.5° | 17431.1 | 17337.8 | 17371.0 | 17232.5 | 16687.8 | 15568.2 | 14755.7 | 16302.6 | 18481.5 | 18547.7 |
| 40° | 17996.9 | 17897.6 | 18030.0 | 17900.6 | 17443.2 | 16669.7 | 15553.2 | 17214.5 | 20088.5 | 20214.9 |
| 42.5° | 18337.0 | 18258.8 | 18478.5 | 18481.5 | 18099.3 | 17599.7 | 16429.0 | 18219.6 | 21948.4 | 22231.3 |
| 45° | 18454.4 | 18427.3 | 18758.3 | 18827.6 | 18680.1 | 18138.4 | 17217.5 | 19315.1 | 23952.8 | 24458.4 |
| 47.5° | 18328.0 | 18276.8 | 18734.3 | 18990.1 | 19107.4 | 18391.2 | 17870.5 | 20500.9 | 25999.2 | 26739.6 |
| 50° | 17690.0 | 17590.6 | 18270.8 | 18809.5 | 19227.8 | 18556.7 | 18529.6 | 21870.2 | 28325.6 | 29135.2 |
| 52.5° | 16543.3 | 16468.1 | 17241.5 | 18177.5 | 18963.0 | 18638.0 | 19270.0 | 23365.9 | 30534.6 | 31581.9 |
| 55° | 15077.7 | 14978.4 | 15830.1 | 17051.9 | 18303.9 | 18610.9 | 20010.3 | 25039.2 | 33140.8 | 34203.2 |
| 57.5° | 12754.3 | 12555.7 | 13633.1 | 15077.7 | 17229.5 | 18577.8 | 20780.7 | 26703.5 | 35789.2 | 37062.2 |
| 60° | 9365.6 | 9070.7 | 10391.9 | 12104.3 | 15128.9 | 18255.8 | 21734.8 | 28569.4 | 38967.3 | 40113.9 |
| 62.5° | 5453.3 | 5281.7 | 6145.4 | 7743.5 | 11403.1 | 16359.8 | 22270.5 | 30739.2 | 42091.2 | 43295.0 |
| 65° | 4234.4 | 4186.2 | 4261.5 | 4384.9 | 6347.1 | 12248.7 | 20618.2 | 32854.9 | 46063.7 | 46906.4 |
| 67.5° | 3873.3 | 3837.1 | 3870.2 | 3638.5 | 3220.2 | 6822.6 | 16311.6 | 33390.6 | 50319.2 | 50830.8 |
| 70° | 3442.9 | 3400.8 | 3509.1 | 3310.5 | 2534.0 | 3102.8 | 10539.3 | 31446.5 | 53704.9 | 54664.9 |
| 72.5° | 2804.9 | 2756.7 | 3009.5 | 2919.2 | 2133.8 | 1992.3 | 5293.7 | 26826.9 | 53349.8 | 55342.1 |
| 75° | 2154.8 | 2127.7 | 2428.7 | 2503.9 | 1739.5 | 1568.0 | 2540.0 | 19941.1 | 46948.5 | 48955.9 |
| 77.5° | 1673.3 | 1652.2 | 1805.7 | 2079.6 | 1402.4 | 1215.8 | 1561.9 | 12649.0 | 35379.9 | 35732.0 |
| 80° | 1255.0 | 1194.8 | 1336.2 | 1610.1 | 1092.5 | 887.8 | 1059.4 | 7376.3 | 22363.7 | 20272.1 |
| 82.5° | 785.5 | 755.4 | 872.8 | 1074.4 | 770.4 | 610.9 | 689.2 | 4074.9 | 8962.4 | 5278.7 |
| 85° | 448.4 | 436.4 | 475.5 | 613.9 | 418.3 | 352.1 | 394.2 | 1799.7 | 1637.2 | 1125.6 |
| 87.5° | 180.6 | 174.6 | 216.7 | 273.9 | 153.5 | 129.4 | 138.4 | 433.4 | 361.1 | 334.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 11421.1 | 0° | 11421.1 | 11421.1 | 11421.1 | 11421.1 | 11421.1 | 11421.1 | 11421.1 | 11421.1 | 11421.1 | 11421.1 |
| 11466.3 | 2.5° | 11454.2 | 11454.2 | 11412.1 | 11345.9 | 11270.7 | 11222.5 | 11144.3 | 11123.2 | 11041.9 | 11017.9 |
| 11568.6 | 5° | 11592.7 | 11568.6 | 11439.2 | 11252.6 | 10996.8 | 10762.0 | 10503.2 | 10340.7 | 10112.0 | 10030.7 |
| 11770.2 | 7.5° | 11767.2 | 11701.0 | 11478.3 | 11069.0 | 10533.3 | 10006.7 | 9458.9 | 9043.6 | 8646.4 | 8504.9 |
| 11935.8 | 10° | 11926.7 | 11833.4 | 11454.2 | 10738.0 | 9811.0 | 8899.2 | 8026.4 | 7415.5 | 6952.0 | 6762.4 |
| 12119.3 | 12.5° | 12086.2 | 11914.7 | 11294.7 | 10187.2 | 8784.8 | 7547.9 | 6617.9 | 6142.4 | 5856.5 | 5627.8 |
| 12269.8 | 15° | 12236.7 | 11995.9 | 11047.9 | 9449.9 | 7659.2 | 6404.3 | 5718.1 | 5338.9 | 5110.2 | 4959.7 |
| 12489.5 | 17.5° | 12411.3 | 12065.2 | 10677.8 | 8513.9 | 6587.8 | 5612.8 | 5053.0 | 4824.3 | 4779.1 | 4761.1 |
| 12790.5 | 20° | 12655.0 | 12128.4 | 10190.2 | 7466.6 | 5799.3 | 4980.8 | 4691.8 | 4670.8 | 4667.8 | 4658.7 |
| 13151.6 | 22.5° | 12916.9 | 12203.6 | 9546.2 | 6515.6 | 5128.2 | 4586.5 | 4535.3 | 4493.2 | 4466.1 | 4463.1 |
| 13588.0 | 25° | 13226.8 | 12227.7 | 8739.6 | 5736.1 | 4556.4 | 4399.9 | 4339.7 | 4276.5 | 4258.5 | 4258.5 |
| 14084.6 | 27.5° | 13527.8 | 12146.4 | 7800.7 | 5059.0 | 4234.4 | 4228.4 | 4150.1 | 4129.1 | 4126.1 | 4135.1 |
| 14650.3 | 30° | 13828.7 | 11992.9 | 6867.7 | 4433.0 | 4047.8 | 4047.8 | 4020.7 | 4035.8 | 4047.8 | 4077.9 |
| 15426.8 | 32.5° | 14235.0 | 11830.4 | 6088.3 | 3969.6 | 3885.3 | 3855.2 | 3882.3 | 3912.4 | 3924.4 | 3963.5 |
| 16447.0 | 35° | 14830.9 | 11716.1 | 5468.3 | 3716.8 | 3716.8 | 3677.6 | 3692.7 | 3686.7 | 3659.6 | 3641.5 |
| 17680.9 | 37.5° | 15619.4 | 11710.0 | 4956.7 | 3599.4 | 3575.3 | 3569.3 | 3572.3 | 3533.2 | 3427.8 | 3301.4 |
| 19173.7 | 40° | 16567.4 | 11872.6 | 4562.4 | 3518.1 | 3500.1 | 3536.2 | 3518.1 | 3412.8 | 3123.9 | 2904.2 |
| 21009.5 | 42.5° | 17840.4 | 12336.0 | 4309.6 | 3418.8 | 3473.0 | 3518.1 | 3445.9 | 3081.7 | 2886.1 | 2738.7 |
| 23101.1 | 45° | 19339.2 | 13088.4 | 4180.2 | 3313.5 | 3421.8 | 3476.0 | 3126.9 | 2967.4 | 2810.9 | 2633.3 |
| 25382.3 | 47.5° | 21036.5 | 14036.4 | 4150.1 | 3214.2 | 3307.5 | 3340.6 | 2991.5 | 2919.2 | 2741.7 | 2549.1 |
| 27675.6 | 50° | 22884.4 | 15159.0 | 4231.4 | 3096.8 | 3141.9 | 3027.6 | 2946.3 | 2880.1 | 2696.5 | 2506.9 |
| 30026.0 | 52.5° | 24795.4 | 16395.9 | 4393.9 | 2937.3 | 2976.4 | 2850.0 | 2928.3 | 2871.1 | 2669.4 | 2413.6 |
| 32454.7 | 55° | 26673.4 | 17641.8 | 4550.4 | 2750.7 | 2807.9 | 2690.5 | 2877.1 | 2835.0 | 2546.1 | 2257.1 |
| 35045.9 | 57.5° | 28581.4 | 18881.7 | 4703.9 | 2585.2 | 2645.4 | 2537.0 | 2795.8 | 2738.7 | 2407.6 | 2112.7 |
| 37874.8 | 60° | 30564.7 | 20085.5 | 4776.1 | 2425.7 | 2467.8 | 2395.6 | 2672.5 | 2573.1 | 2251.1 | 1965.2 |
| 40655.6 | 62.5° | 32421.6 | 21087.7 | 4658.7 | 2266.2 | 2293.3 | 2263.2 | 2509.9 | 2377.5 | 2094.6 | 1799.7 |
| 43553.8 | 65° | 34284.5 | 21683.6 | 4297.6 | 2109.7 | 2115.7 | 2100.6 | 2281.2 | 2166.9 | 1911.0 | 1655.2 |
| 46090.8 | 67.5° | 35972.8 | 22017.7 | 3722.8 | 1941.1 | 1926.1 | 1920.1 | 2067.5 | 1938.1 | 1733.5 | 1510.8 |
| 48019.9 | 70° | 36330.9 | 21169.0 | 2844.0 | 1742.5 | 1742.5 | 1727.5 | 1832.8 | 1700.4 | 1537.9 | 1357.3 |
| 46638.5 | 72.5° | 33183.0 | 17807.3 | 2019.4 | 1516.8 | 1540.9 | 1510.8 | 1598.1 | 1486.7 | 1339.2 | 1218.9 |
| 40195.2 | 75° | 26757.6 | 13058.3 | 1468.6 | 1285.1 | 1327.2 | 1276.0 | 1357.3 | 1279.0 | 1152.6 | 1149.6 |
| 27699.6 | 77.5° | 18385.2 | 8074.5 | 1065.4 | 1059.4 | 1089.4 | 1023.2 | 1116.5 | 1074.4 | 960.0 | 908.9 |
| 12056.1 | 80° | 7845.8 | 3220.2 | 776.5 | 818.6 | 818.6 | 758.4 | 866.7 | 878.8 | 779.5 | 755.4 |
| 2326.4 | 82.5° | 1561.9 | 914.9 | 544.7 | 562.8 | 529.7 | 511.6 | 613.9 | 680.2 | 939.0 | 1044.3 |
| 701.2 | 85° | 469.5 | 337.1 | 328.0 | 307.0 | 270.9 | 273.9 | 361.1 | 683.2 | 842.7 | 481.5 |
| 231.7 | 87.5° | 129.4 | 84.3 | 87.3 | 69.2 | 57.2 | 75.2 | 123.4 | 517.6 | 282.9 | 120.4 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| <u>180°</u> |
|-------------|
| 11421.1 |
| 11057.0 |
| 10090.9 |
| 8523.0 |
| 6804.5 |
| 5703.0 |
| 4986.8 |
| 4773.1 |
| 4688.8 |
| 4496.2 |
| 4276.5 |
| 4159.2 |
| 4099.0 |
| 3996.6 |
| 3683.7 |
| 3304.5 |
| 2898.2 |
| 2732.6 |
| 2621.3 |
| 2534.0 |
| 2485.9 |
| 2395.6 |
| 2242.1 |
| 2106.7 |
| 1956.2 |
| 1796.7 |
| 1637.2 |
| 1492.7 |
| 1351.3 |
| 1182.7 |
| 1035.3 |
| 851.7 |
| 755.4 |
| 1047.3 |
| 415.3 |
| 102.3 |
| 0.0 |

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